RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/724,264*

Source: *1FWO*

Date Processed by STIC: *12/19/03*

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
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Revised 10/08/03

II

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 3 <110> APPLICANT: JENSEN, Rasmus B.
 4         KELEMEN, Bradley
 6 <120> TITLE OF INVENTION: PROTEORHODOPSIN MUTANTS WITH IMPROVED OPTICAL CHARACTERISTICS
 8 <130> FILE REFERENCE: 02716.0005.NPUS01
>10 <140> CURRENT APPLICATION NUMBER: US/10/724,264
>10 <141> CURRENT FILING DATE: 2003-11-26
 10 <150> PRIOR APPLICATION NUMBER: 60/429,518
 11 <151> PRIOR FILING DATE: 2002-11-26
 13 <160> NUMBER OF SEQ ID NOS: 212
 15 <170> SOFTWARE: PatentIn version 3.2
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 18 <211> LENGTH: 252
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Marine eubacteria
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 29             20                  25                  30
 32 Val Ser Phe Trp Leu Val Thr Ala Gly Met Leu Ala Ala Thr Val Phe
 33             35                  40                  45
 36 Phe Phe Val Glu Arg Asp Gln Val Ser Ala Lys Trp Lys Thr Ser Leu
 37         50                  55                  60
 40 Ala Val Ser Gly Leu Ile Thr Gly Ile Ala Phe Trp His Tyr Leu Tyr
 41 65                  70                  75                  80
 44 Met Arg Gly Val Trp Ile Asp Thr Gly Asp Thr Pro Thr Val Phe Arg
 45                 85                  90                  95
 48 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Gln Met Val Glu Phe Tyr
 49                 100                 105                 110
 52 Leu Ile Leu Ala Ala Cys Thr Ser Val Ala Ala Ser Leu Phe Lys Lys
 53             115                 120                 125
 56 Leu Leu Ala Gly Ser Leu Val Met Leu Gly Ala Gly Phe Ala Gly Glu
 57         130                 135                 140
 60 Ala Gly Leu Ala Pro Val Leu Pro Ala Phe Ile Ile Gly Met Ala Gly
 61 145                 150                 155                 160
 64 Trp Leu Tyr Met Ile Tyr Glu Leu Tyr Met Gly Glu Gly Lys Ala Ala
 65                 165                 170                 175
 68 Val Ser Thr Ala Ser Pro Ala Val Asn Ser Ala Tyr Asn Ala Met Met
 69             180                 185                 190
 72 Met Ile Ile Val Val Gly Trp Ala Ile Tyr Pro Ala Gly Tyr Ala Ala
 73             195                 200                 205
 76 Gly Tyr Leu Met Gly Gly Glu Gly Val Tyr Ala Ser Asn Leu Asn Leu
 77     210                 215                 220
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pp 6-7
Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/724,264**

DATE: 12/19/2003
TIME: 13:02:10

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Output Set: **N:\CRF4\12192003\J724264.raw**

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98 ggtatgttag cggcaactgt gttctttttt gtagaaagag accaagtcag cgctaagtgg     180
100 aaaacttcac ttgctgtatc tggtttaatt actggtatag cttttttggca ttatctctat    240
102 atgagaggtg tttggataga cactggtgat accccaacag tattcagata tattgattgg    300
104 ttattaactg ttccattaca aatggttgag ttctatctaa ttcttgctgc ttgtacaagt    360
106 gttgctgctt cattatttaa gaagcttcta gctggttcat tagtaatgtt aggtgctgga    420
108 tttgcaggcg aagctggatt agctcctgta ttacctgctt tcattattgg tatggctgga    480
110 tggttataca tgatttatga gctatatatg ggtgaaggta aggctgctgt aagtactgca    540
112 agtcctgctg ttaactctgc atacaacgca atgatgatga ttattgttgt tggatgggca    600
114 atttatcctg ctggatatgc tgctggttac ctaatgggtg gcgaaggtgt atacgcttca    660
116 aacttaaacc ttatatataa ccttgccgac cttgttaaca agattctatt tggtttgatc    720
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124 <213> ORGANISM: Marine eubacteria
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133             20             25             30
136 Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe Phe Phe
137             35             40             45
140 Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu Thr Val
141     50             55             60
144 Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr Met Arg
145 65             70             75             80
148 Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg Tyr Ile
149             85             90             95
152 Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr Leu Ile
153             100             105             110
156 Leu Ala Ala Ala Thr Asn Val Ala Gly Ser Leu Phe Lys Lys Leu Leu
157             115             120             125
160 Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu Ala Gly
161     130             135             140
164 Ile Met Ala Ala Trp Pro Ala Phe Ile Ile Gly Cys Leu Ala Trp Val
165 145             150             155             160
168 Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ser Ala Cys Asn
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RAW SEQUENCE LISTING   DATE: 12/19/2003
PATENT APPLICATION: **US/10/724,264**   TIME: 13:02:10

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Output Set: **N:\CRF4\12192003\J724264.raw**

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180 Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile Tyr Asn
181         210                 215             220
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202 ttagcatcta ctgtattttt ctttgttgaa agagatagag tttctgcaaa atggaaaaca   180
204 tcattaactg tatctggtct tgttactggt attgctttct ggcattacat gtacatgaga   240
206 ggggtatgga ttgaaactgg tgattcgcca actgtattta gatacattga ttggttacta   300
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212 ggtgaagcag gaatcatggc tgcatggcct gcattcatta ttgggtgttt agcttgggta   480
214 tacatgattt atgaattatg ggctggagaa ggaaatctg catgtaatac tgcaagtcct   540
216 gctgtgcaat cagcttacaa cacaatgatg tatattatca tctttggttg ggcgatttat   600
218 cctgtaggtt atttcacagg ttacctgatg ggtgacggtg atcagctct taacttaaac   660
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237         20                  25                  30
240 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
241         35                  40                  45
244 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
245     50                  55                  60
248 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
249 65                  70                  75                  80
252 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
253                 85                  90                  95
256 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
257             100                 105                 110
260 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Ala Gly Leu Phe Lys Lys
261         115                 120                 125
```

```
264 Leu Leu Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu
265         130             135             140
268 Ala Gly Ile Met Asn Ala Trp Gly Ala Phe Val Ile Gly Cys Leu Ala
269 145             150             155             160
272 Trp Val Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ala Ala
273             165             170             175
276 Cys Asn Thr Ala Ser Pro Ala Val Gln Ser Ala Tyr Asn Thr Met Met
277             180             185             190
280 Tyr Ile Ile Ile Phe Gly Trp Ala Ile Tyr Pro Val Gly Tyr Phe Thr
281         195             200             205
284 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
285         210             215             220
288 Tyr Asp Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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304 1           5               10              15
307 Thr Phe Ala Ala Gly Gly Gly Asp Leu Asp Ala Ser Asp Tyr Thr Gly
308             20              25              30
311 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
312         35              40              45
315 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
316         50              55              60
319 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
320 65              70              75              80
323 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
324             85              90              95
327 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
328             100             105             110
331 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Ala Gly Leu Phe Lys Lys
332         115             120             125
335 Leu Leu Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu
336         130             135             140
339 Ala Gly Ile Met Asn Ala Trp Gly Ala Phe Val Ile Gly Cys Leu Ala
340 145             150             155             160
343 Trp Val Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ala Ala
344             165             170             175
347 Cys Asn Thr Ala Ser Pro Ala Val Gln Ser Ala Tyr Asn Thr Met Met
348             180             185             190
351 Tyr Ile Ile Ile Phe Gly Trp Ala Ile Tyr Pro Val Gly Tyr Phe Thr
352         195             200             205
355 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
356         210             215             220
```

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359 Tyr Asp Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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368 <211> LENGTH: 252
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370 <213> ORGANISM: Marine eubacteria
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379             20                  25                  30
382 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
383             35                  40                  45
386 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
387         50                  55                  60
390 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
391 65                  70                  75                  80
394 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
395                 85                  90                  95
398 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
399             100                 105                 110
402 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Gly Ser Leu Phe Lys Lys
403             115                 120                 125
406 Leu Leu Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu
407         130                 135                 140
410 Ala Gly Ile Met Ala Ala Trp Pro Ala Phe Ile Ile Gly Cys Leu Ala
411 145                 150                 155                 160
414 Trp Val Tyr Met Ile Tyr Glu Leu Tyr Ala Gly Glu Gly Lys Ser Ala
415                 165                 170                 175
418 Cys Asn Thr Ala Ser Pro Ser Val Gln Ser Ala Tyr Asn Thr Met Met
419             180                 185                 190
422 Ala Ile Ile Val Phe Gly Trp Ala Ile Tyr Pro Ile Gly Tyr Phe Thr
423             195                 200                 205
426 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
427         210                 215                 220
430 Tyr Asn Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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448 gctctattag catctactgt atttttcttt gttgaaagag atagagtttc tgcaaaatgg     180
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/19/2003
PATENT APPLICATION: US/10/724,264   TIME: 13:02:11

Input Set : A:\02716.0005.NPUS01.ST25.txt
Output Set: N:\CRF4\12192003\J724264.raw

 of <220> Feature(NEW RULES):
uence(s)__are missing the <220> Feature and associated headings.
 of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
Unknown". Please explain source of genetic material in <220> to <223>
tion (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
c.1.823 of new Rules)

#:186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203
#:204,205,212

(see p. 7 for samples)

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Explanation needed (handwritten)

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Explanation needed (handwritten)

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Output Set: **N:\CRF4\12192003\J724264.raw**

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0 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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Output Set: **N:\CRF4\12192003\J724264.raw**

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